

CABIN		ENGINE START		NORMAL CLIMB		SHORT FIELD TAKE-OFF	
1. Documents	ARROW	1. Mixture	FULL RICH	1. Speed	70-78 KIAS	1. Takeoff Check	COMPLETE
2. Control Wheel Lock	REMOVE	2. Carburetor Heat	COLD	2. Throttle	Full Power	2. Flaps	Obst- 0°, No Obst- 10° (3 Sec.)
3. Ignition Switch	OFF	3. Prime	As Required	3. Mixture FULL RICH	(Lean ^ 3000)	3. Runway	End, Centerline Aligned
4. Master Switch	OFF	4. Throttle	Open 1/4"	4. Transponder	Altitude Mode (verify)	4. Brakes	HOLD
5. Master Switch	ON	5. Master Switch	ON	CRUISE		5. Throttle	Full Power, Check Instruments
6. Fuel	CHECK	6. Beacon Light	ON	1. Throttle	2200-2700 RPM	6. Mixture	RICH (Lean for DA)
7. Radios/Avionics	ON (Check For Op.) OFF	7. Propeller Area	Announce CLEAR and Verify	2. Trim	Set for Level Flight	7. Brakes	RELEASE
8. Beacon Light	ON (Check For Op.) OFF	8. Ignition Switch	START	3. Mixture	Lean For Max RPM	8. Rotate Speed	V_r 55 KIAS
9. Flaps	DOWN	9. Throttle	1000 RPM	4. Fuel	MONITOR	9. Climb Speed	(Till Obst. Clr.) V_x 64 KIAS
10. Master Switch	OFF	10. Oil Pressure	CHECK	5. Engine Instruments/ Vacuum	CHECK	10. Flaps	Slowly Retract At Safe Altitude
EMPENNAGE		11. Avionics/Radios	ON	6. Heading Indicator	Reset As Needed	11. Continue Climb	V_y 78 KIAS
1. Baggage Door	Open & Remove Necessary Items	12. Transponder	Proper Code & Ground Mode	DESCENT		SOFT FIELD TAKE-OFF	
2. Tail Tie Down	REMOVE	13. Mixture	Lean For Taxi	1. ATIS/AWOS/ASOS	Listen & Recorded	1. Takeoff Check	COMPLETE
3. Tail Surfaces	Check For Freedom Of Movement	14. Flaps	UP	2. Attitude & Heading Indicators	SET	2. Flaps	10° (3 Sec.)
RIGHT WING		TAXI		3. Throttle	As Desired	3. Centerline	Aligned (NO Brakes, Pitch Up)
1. Flap	CHECK	1. ATIS/AWOS/ASOS	Listen & Recorded	4. Carb Heat	As Required	4. Throttle	Full Power, Check Instruments
2. Aileron	Check For Freedom Of Movement	2. Altimeter	SET	5. Mixture	Adjust For Smooth Operation	5. Obstacle	V_x 64 KIAS
3. Wingtip	CHECK	3. IFR Clearance	If Necessary	6. Flaps	As Desired	6. No Obstacle	V_y 78 KIAS
4. Wing Tie Down	REMOVE	4. Taxi Clearance	Obtained	PRE-LANDING CHECK		7. Flaps	RETRACT (Safe Altitude)
5. Main Strut & Tire	CHECK	5. Brakes	Check When Moving	1. PAX Briefing	COMPLETED	PERFORMANCE CLIMB	
6. Underwing Sump	DRAIN	BEFORE TAKEOFF		2. Fuel Selector Valve	BOTH	1. Best Rate (Flaps Up)	V_y 78 KIAS
7. Fuel Quantity	CHECK	1. Parking Brake	SET	3. Mixture	RICH	2. Best Angle (Flaps Up)	V_x 64 KIAS
8. Fuel Filler Cap	SECURE	2. Seat Belts/Harness	CHECK	4. Carb Heat	ON	3. Throttle	FULL
Nose		3. Flight Controls	Free and Correct	5. Seatbelts	FASTENED	4. Engine Temps	MONITOR
1. Cowling	Check Condition	4. Fuel Selector	BOTH	APPROACH SPEEDS		5. Mixture	Leaned For DA
2. Oil Quantity	6-8 Quarts	5. Mixture	Adjust for Dens. Alt. & Elev	1. Pre-Landing Check	COMPLETE	6. Landing Light	OFF
3. Engine Sump	DRAIN	6. Throttle	1800 RPM	2. Airspeed	65-75 KIAS (Flaps Up)	V-SPEEDS	
4. Oil Pressure Cap & Hatch	SECURE	7. Mags	Max Drop 125/Max Diff 50 RPM	3. Airspeed	60-70 KIAS (Flaps Down)	V _r	55 KIAS
5. Prop & Spinner	CHECK	8. Engine Instruments	In The Green	GO-AROUND		V _x Sea Level	64 KIAS
6. Alternator Belt	CHECK	9. Ammeter	Alternator OFF / ON	1. Throttle	FULL	V _x 10,000 MSL	65 KIAS
7. Air Intake & Filter	CLEAR	10. Master Switch	Verify ON	2. Carb Heat	OFF (IN)	V _y Sea Level	78 KIAS
8. Nose Strut & tire	CHECK	11. Vacuum	4.6 to 5.4	3. Flaps	Retract to 20°	V _y 10,000	70 KIAS
9. Shimmy Dampener	CHECK	12. Carb. Heat	ON 50-100 RPM Drop / OFF	3. Airspeed	(V_x) 64 KIAS	V _{FE}	87 KIAS
10. Static Port	CLEAR	13. Throttle	1000 RPM	5. Flaps	Retract (70-78 KIAS) & +ROC	V _{NO}	126 KIAS
LEFT WING		14. Alt. Static Source	Check For Operation	AFTER LANDING		V _{NE}	158 KIAS
1. Fuel Quantity	CHECK	15. Flight Instruments	SET	1. Flaps	UP	V _{S1}	47 KIAS
2. Fuel Filler Cap	SECURE	16. Radios	SET	2. Carb Heat	OFF	V _{SO}	41 KIAS
3. Pitot Tube	CLEAR	17. Throttle Friction Lock	ADJUST	3. Transponder	Ground Mode	V _{L/D Max}	65 KIAS
4. Stall Warning Port	CLEAR	18. Cabin Doors and Windows	LOCKED	4. Mixture	Leaned For Taxi	V _A 2550 lbs	105 KIAS
5. Fuel Vent	CLEAR	19. Brakes	Release	5. Lights	As Required	Max Demonstrated X-Wind	15 Knots
6. Wing Tie Down	REMOVE	TAKEOFF CHECK		6. Radio	SET	WEIGHT & BALANCE	
7. Wing Tip	CHECK	1. Flaps	UP	7. Taxi Clearance	Obtained	Empty Weight	1448.10
8. Aileron	Check For Freedom Of Movement	2. Carb Heat & Mixture	COLD & SET	SHUTDOWN		Empty Moment	56794.84 pound inches
9. Flap	CHECK	3. Transponder	Ground Mode	1. Parking Break	SET	C.G.	39.22 inches aft
10. Underwing Sump	DRAIN	4. Trim	SET FOR TAKEOFF	2. Avionics	OFF	Useful Load	1101.5 lbs
11. Main Strut & Tire	CHECK	NORMAL TAKEOFF		3. Lights	OFF	Cessna 172M-180 Quick Reference Checklist	
12. Baggage Door	Replace Items & Close	1. Takeoff Check	COMPLETE	4. Throttle	1000 RPM	Contains Supplemental Type Certificate Update	
WALKAROUND		2. Flaps	0°	5. Mixture	IDLE CUT-OFF	For 180 HP Power Plant Conversion	
CHECK FOR ANYTHING YOU MISSED!		3. Carb Heat	COLD	6. Magnetos	OFF	***N12527***	
BEFORE ENGINE START		4. Lights	As Required	7. Master Switch	OFF		
1. Passenger Briefing	COMPLETE	5. Parking Brake	Release	SECURING THE AIRCRAFT			
2. Seatbelts	FASTEN	6. Takeoff Clearance	Obtained	1. Control Lock	INSERTED		
3. Brakes	Test & Set	7. Runway	Centerline Aligned	2. Hobbs/Tach	RECORDED		
4. Avionics, Electrical Equipment	OFF	8. Throttle	Full Power	3. Doors & Windows	SECURED		
5. Circuit Breakers	IN	9. Rotate	V_r 55 KIAS	4. Tie Downs	As Required		
6. Fuel Selector	BOTH	10. Climb Speed	65-74 KIAS	5. Trash	REMOVE		

ENGINE POWER LOSS
IMMEDIATELY AFTER TAKE-OFF

1. Airspeed-----**65 KIAS**
2. Sufficient Runway: Use Remaining Distance
3. Insufficient Runway & Altitude: Land Straight Ahead

ENGINE FAILURE DURING FLIGHT

BEST GLIDE SPEED-----65 KIAS

SPOT-----Find A Landing Site

SYSTEM CHECK

- | | |
|---------------------|---------------|
| 1. Primer | In and Locked |
| 2. Master Switch | ON |
| 3. Ignition Switch | ON |
| 4. Circuit Breakers | Check |
| 5. Carb Heat | ON |
| 6. Throttle | Verify |
| 7. Mixture | Full RICH |
| 8. Fuel Selector | BOTH |
| 9. Fuel Indicators | Check |

SIGNAL-----121.5 & 7700

SECURE

- | | |
|------------------|-------------|
| 1. Mixture | IDLE-CUTOFF |
| 2. Fuel Selector | OFF |
| 3. Ignition | OFF |
| 4. Master | OFF |
| 5. Door | OPEN |

*****FIRE*****

ENGINE FIRE IN FLIGHT

1. Mixture **IDLE-CUTOFF**
2. Fuel Selector **OFF**
3. Master Switch **OFF**
4. Glide **105 KIAS**
5. Cabin Heat **OFF**
6. FIND A LANDING SITE
7. If fire is not extinguished,
increase airspeed until it is.

ENGINE START FIRE ON GROUND

1. Continue Cranking
2. Start Is Successful **1700 RPM**
3. Start Is Unsuccessful:
Continue cranking until someone can
extinguish the flames

ELECTRICAL FIRE IN FLIGHT

1. Master Switch **OFF**
2. All Switches (Except Ignition) **OFF**
3. Circuit Breakers:

Check for any faulty breakers
and make sure their disconnected

4. Master Switch **ON**
5. Switches **Turn On Successively**
6. Venting:

Make sure fire is completely out
before venting